

**W Claim:**

1. A device for detecting presence of a child restraint seat when the child restraint seat is attached to a vehicle seat, the device comprising:
  - 5 an anchorage having at least one coupler adapted to couple with a complementary coupler on the child restraint seat to retain the child restraint seat on the vehicle seat; the anchorage being movable with respect to the vehicle seat and being biased to a first position with respect to the vehicle seat, the first position being indicative of an absence of the child restraint seat attached to the anchorage, and
  - 10 a position sensor attached to the anchorage for detecting movement of the anchorage to a second position with respect to the vehicle seat, thereby indicating a child restraint seat is attached to the anchorage, the position sensor being adapted to transmit a signal to an air bag controller when moved
  - 15 to the second position.
2. The device of claim 1 wherein the anchorage is biased to the first position by at least one spring.
- 20 3. The device of claim 2 wherein the anchorage is pivotally mounted with respect to the vehicle seat and rotates from the first position to the second position
4. The device of claim 1 wherein the anchorage is resilient and deflects
- 25 from the first position to the second position.
5. The device of claim 1 wherein the vehicle seat includes a seat back frame, the anchorage being attached to the seat back frame by a cross bar adapted to be mounted between two vertically extending seat back frame
- 30 members comprising the seat back frame.

6. The device of claim 5 wherein the anchorage comprises an anchorage bar extending along the cross bar and having two couplers at spaced locations thereon.
- 5 7. The device of claim 6 wherein the anchorage bar is resilient and is fixed to the cross bar at a portion of the anchorage bar, a second portion of the anchorage bar having the couplers thereon and being deflectable with respect to the first portion.
- 10 8. The device of claim 7 wherein the couplers are loops disposed adjacent to opposite ends of the anchorage bar.
9. The device of claim 8 wherein the cross bar has a load limiter surface thereon which engages the anchorage bar when the bar deflects to the  
15 second position.
10. The device of claim 9 wherein the position sensor is mounted on a plate extending between the loops that define the couplers.
- 20 11. The device of claim 6 wherein the anchorage bar has a first portion pivotally mounted on the cross bar and wherein at least one spring is disposed between the anchorage bar and the cross bar urging the anchorage bar to the first position.
- 25 12. The device of claim 11 wherein the couplers are loops disposed at opposite ends of the anchorage bar.
13. The device of claim 12 wherein the cross bar has a load limiter surface thereon which engages the anchorage bar when the bar deflects to the  
30 second position.

14. The device of claim 13 wherein the position sensor is mounted on a plate extending between the loops that define the couplers.

15. A device for detecting a presence of a child restraint seat when the  
5 child restraint seat is attached to a vehicle seat having a seat back frame that includes a pair of horizontally spaced side frame members, the device comprising:

a cross bar having first and second ends, the first and second ends being fixed to the first and second side frame members, respectively, of the  
10 seat back frame;

an anchorage bar mounted on the cross bar and having first and second couplers thereon for coupling with couplers on the child restraint seat to retain the child restraint seat on the vehicle seat; the anchorage bar being movable with respect to the cross bar from a first position to a second position  
15 and being biased to the first position, and

a position sensor attached to the anchorage bar for detecting movement of the anchorage bar to the second position indicative of a child restraint seat being coupled to the anchorage bar, the position sensor being adapted to transmit a signal to an air bag controller when moved to the  
20 second position indicating the presence of the child restraint seat on the vehicle seat.

16. The device of claim 15 wherein the couplers are loops disposed at opposite ends of the anchorage bar.

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17. The device of claim 16 wherein the cross bar has a load limiter surface thereon which engages the anchorage bar when the anchorage bar deflects to the second position.

30 18. The device of claim 17 wherein the position sensor is mounted on a plate extending between the loops that define the couplers.

19. The device of claim 15 wherein the anchorage bar is resilient and is fixed to the cross bar at a portion of the anchorage bar, a second portion of the anchorage bar having the couplers thereon and being deflectable with respect to the first portion.

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20. The device of claim 15 wherein the anchorage bar has a first portion pivotally mounted on the cross bar and wherein at least one spring is disposed between the anchorage bar and cross bar for urging the anchorage bar to the first position.

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